

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38151

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04L 9/00; G06K 15/00; H04N 1/40; H04N 7/167; G06K 9/36; G06K 9/46
US CL : 713/176; 358/3.28; 380/201; 382/250, 280, 281

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 713/176; 358/3.28; 380/20; 382/250, 280, 281

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
IEEEExplore

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	TIO, C.M.M. ET AL. Perceptual Audio Data Concealment and Watermarking Scheme Using Direct Frequency Domain Substitution. IEEE Proceedings: Vision, Image and Signal Processing, December 2002, Vol. 149, No. 6, pages 335-340, especially page 336, Fig. 1.	1, 2, 8, 9
---		-----
Y,P	US 4,969,189 A (OHTA et al) 06 November 1990 (06.11.1990), abstract, lines 1-15	3-7, 10-28
Y	US 2002/0071593 A1 (MURATANI) 13 June 2002 (13.06.2002), Fig. 27, page 15, paragraph 0269, lines 7-11	3, 4, 19-22
Y	US 5,027,405 A (OZAWA) 25 June 1991 (25.06.1991), Fig. 1; column 4, lines 48-54	4, 22
Y,P	US 2003/0068067 A1 (FIELDING et al) 10 April 2003 (10.04.2003), page 3, paragraph 0023, lines 9-13	5, 6, 12, 15, 18
Y,P	US 2003/0163305 A1 (CHENG et al) 28 August 2003 (28.08.2003), Fig. 1, Fig. 7; page 2, paragraph 0024, lines 9-28; page 5, paragraph 0054, lines 12-16	5, 6, 12, 15, 18
Y,P	US 2003/0091213 A1 (YAMAKAGE et al) 15 May 2003 (15.05.2003), abstract	6, 7, 10-28
		20, 21

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

12 April 2004 (12.04.2004)

Date of mailing of the international search report

23 APR 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230

Authorized officer

Bhavesh Mehta

Telephone No. (703) 305-4700